# **Course Syllabus**

1.	Program of Study Faculty/Institute/College	Bachelor of Science (Computer Science) Mahidol University International College Mahidol University			
	<b>Course Code</b> ICCS 333	Course Title Introduction to Cognitive Science			
2.	Number of Credits	<b>4 (Lectures/lab)</b> (4 - 0)			
3.	Prerequisite(s)	ICCS 324			
4.	Type of Course	Elective			

5. Trimester / Academic Year Trimester II / Year 2005 - 2006

## 6. **Course Description**

Principles in psychology, neuroscience, philosophy, artificial intelligence, linguistics, and anthropology that support cognitive science; links between mind and intelligence; mental and computer representations of knowledge and computational procedures; roles of visual representations in human thinking; psychological processes based on neural connections; philosophical problems related to cognitive science

## 7. Course Objective(s)

By the end of the course students should be able to describe and explain:

- The interdisciplinary nature of cognitive science
- The fundamentals of various disciplines that are combined into cognitive science
- The interrelationships among these disciplines that support cognitive science

## 8. Course Outline

Wook	Торіс	Instructor	
WEEK	Lecture		instructor
1	Introduction	4	
2	Cognitive Psychology: The Architecture of	4	
	the Mind		
3	Cognitive Psychology: Further	4	
	Explorations		
4	Artificial Intelligence: Knowledge	4	1 Aggaziata Drofaggar
	Representation, Search, Control, and Learning		1. Associate Professor
5	Linguistics: The Representation of Language	4	Dr. Somphong M D
6	Neuroscience: Brain and Cognition	4	2 Dr. Udom Silparcha
7	Philosophy: Foundations of Cognitive	4	2. Dr. Odolli Shparena 3. Dr. Krittava
	Science		J. DI. Kilitaya
8	Language Acquisition and Semantics	4	Leelawolig
9	Natural Language Processing	4	
10	Vision	4	
11	Conclusion	4	
	Total	44	

## 9. Teaching Method(s)

Lectures, in-class practical exercises, discussion, and self-study

### **10.** Teaching Media

Text and teaching materials, Powerpoint, and handouts

#### 11. Measurement and Evaluation of Student Achievement Assessment made from stated criteria: students with 85% obtain gr

Assessment made from stated criteria: students with 85% obtain grade A

### **12.** Course Evaluation

1.	Participation	5%	3.	Mid-term exam	30%
2.	Assignments (×5)	25%	4.	Final exam	40%

## 13. **Reference**(s)

Stillings, N.A., et al., 1995. Cognitive Science: An Introduction –  $2^{nd}$  Ed., MIT press, Cambridge, Mass. Additional readings set by the instructors

## 14. Course Instructors

Associate Professor Dr. Somphong Sahaphong, M.D. Dr. Udom Silparcha Dr. Krittaya Leelawong

## 15. Course Coordinator

Dr. Udom Silparcha